

## ABSTRACT

A magnetic lid closure sensor uses a magnet sensor element mounted within the washing machine housing below the closed lid. Flux directors conduct flux from a magnet in the lid to the magnet sensor. A lock mechanism employs a hook engaging an aperture in the lid so that opening of the lid does not impart a torque to the hook such as would disengage it, allowing the hook to be activated and deactivated with a simple bi-directional solenoid.

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